

Appl. No. 10/056,096
Req. for Reconsideration dated May 10, 2006
Reply to Office Action of March 30, 2006

Listing of Claims:

1. (Currently Amended) A wireless terminal comprising a ground conductor housing and a transceiver housed by said ground conductor housing and coupled to an antenna feed,

wherein the antenna feed is coupled directly to the ground conductor housing via a parallel plate capacitor formed by a conducting plate and a portion of the ground conductor housing, said capacitor being sized to have a large capacitance for maximum coupling and minimum reactance and to have a Q radiating element less than 1, and said plate being sized to provide a resultant capacitance of about 0.5pF,

wherein said portion of the ground conductor housing acts as a wideband radiator, eliminating the need for a separate antenna,

wherein a slot, partially located underneath the conducting plate, is provided in the ground conductor housing such that said coupling occurs across the slot substantially at its open end, thereby increasing the resistance of the ground conductor housing, and

wherein the wireless terminal comprises a single port and a single ground plane.

2. (Previously Presented) A terminal as claimed in claim 1, wherein the slot is parallel to the major axis of the terminal.

3. (Previously Presented) A terminal as claimed in claim 1, wherein the slot is folded.

4. (Previously Presented) A terminal as claimed in claim 1, wherein a further slot, also partially located underneath the conducting plate, is provided in the ground conductor housing.

5. (Previously Presented) A terminal as claimed in claim 1, wherein the

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conducting plate is asymmetrical with respect to the major axis of the ground conductor housing.

6. (Previously Presented) A terminal as claimed in claim 1, wherein the ground conductor housing is a handset case.

7. (Previously Presented) A terminal as claimed in claim 1, wherein the ground conductor housing is a printed circuit board ground plane.

8. (Previously Presented) A terminal as claimed in claim 1, wherein a matching network is provided between the transceiver and the antenna feed.